KENWOOD

CASSETTE-RECEIVER

KRC-430

INSTRUCTION MANUAL

KENWOOD CORPORATION

Take the time to read through this instruction manual. Familiarity with installation and operation procedures will help you obtain the best performance from your new cassette-receiver.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on this product.

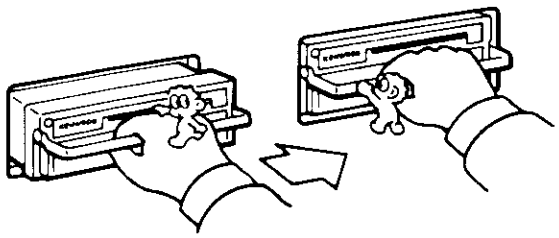
Model KRC-430 Serial number _____

© PRINTED IN JAPAN B64-0049-00(K)(T)
91/12 11 10 9 8 7 6 5 4 3 2 1 90/12

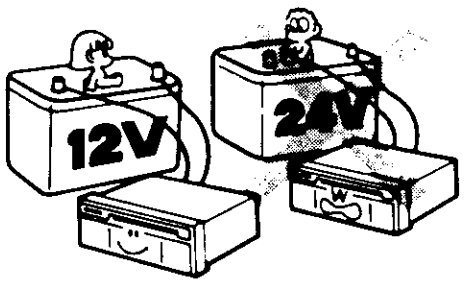
⚠ WARNING

TO PREVENT ELECTRIC SHOCK, FIRE AND OTHER INJURY. PLEASE NOTE THE FOLLOWINGS:

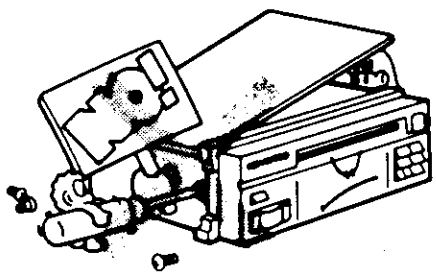
- Secure the locks on the detachable case.



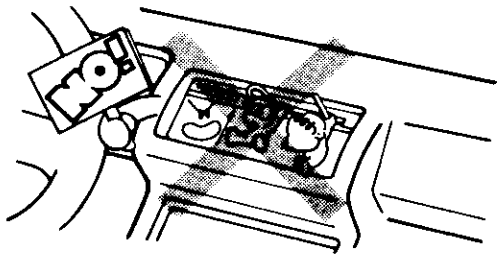
- The unit is designed to be connected 12 V DC and negative grounding.



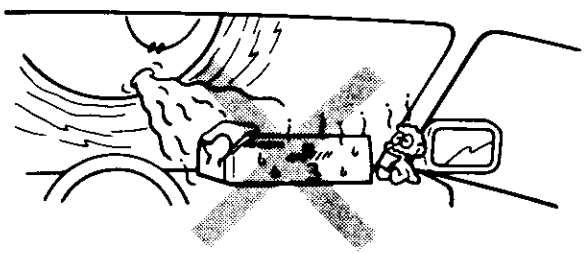
- Do not open enclosure, such as front panel, top or bottom cover.



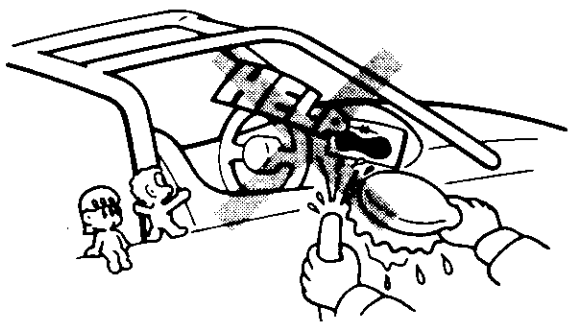
- Do not drop pieces of metal, needles, coins and other electrically conductive materials into the unit.



- Do not place the unit, where it will be exposed to direct sunlight or close to heating device.



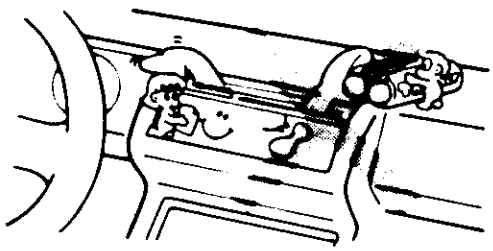
- Do not dash water on the unit.



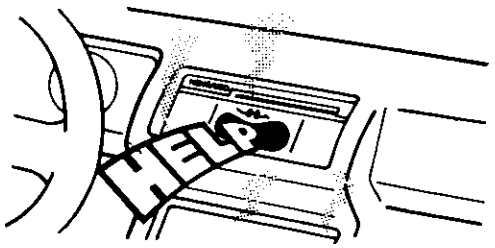
- Do not place the unit in areas of excessive dust, high humidity or on unstable surfaces.

CLEANING

1. Turn the power off, before cleaning the unit.
2. Do not use any type of abrasive pad, thinner, benzine and any such kind of objects.
3. Wipe the front panel and other exterior surfaces of the unit with a soft dry cloth or a soft cloth lightly moistened with a neutral detergent.



- If an abnormal smell or smoke is detected, immediately turn the power off.



■ If you have difficulty in installing the set in your car, please contact your KENWOOD dealer.

FCC WARNING:

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

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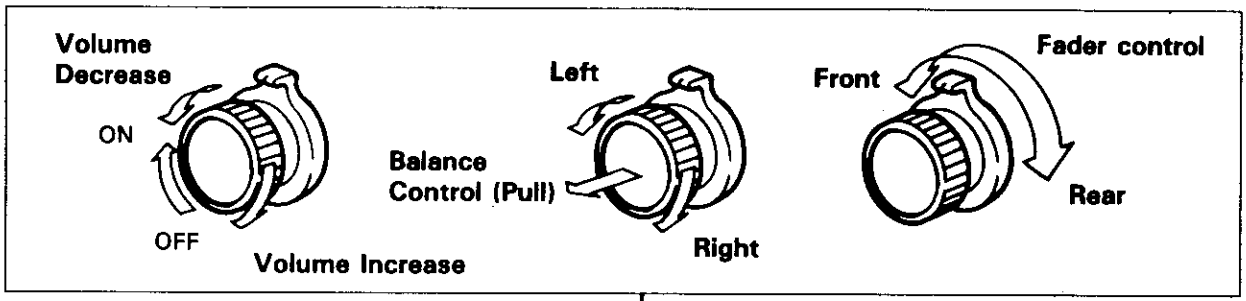
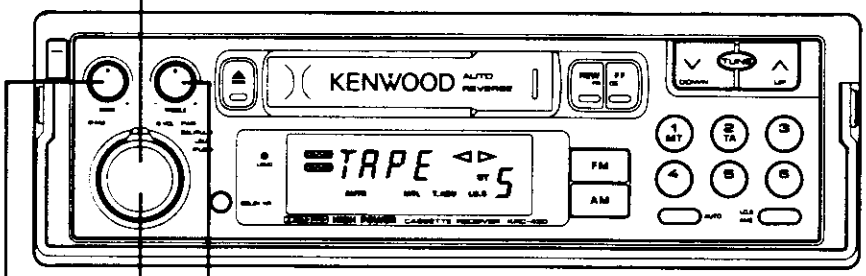
SOUND LEVEL AND QUALITY

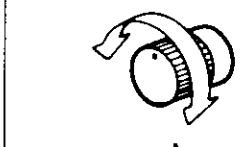




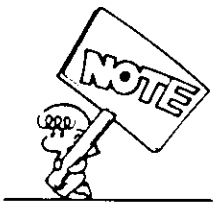
LOUDNESS SWITCH

When listening at low volume levels, pressing this switch will activate the loudness circuit which will compensate for the human ear's lack of sensitivity to bass at low levels.

BASS CONTROL



TREBLE CONTROL



1. Turning the power ON automatically turns this unit to a tuner mode.
2. Explain how to operate hereafter with the power ON.

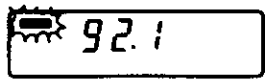
SEEK TUNING

1

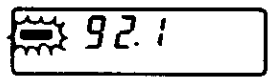
Select the desired Band.

FM ← Press FM1 or FM2

AM ← Press AM



FM1

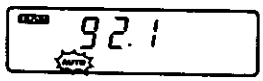


FM2

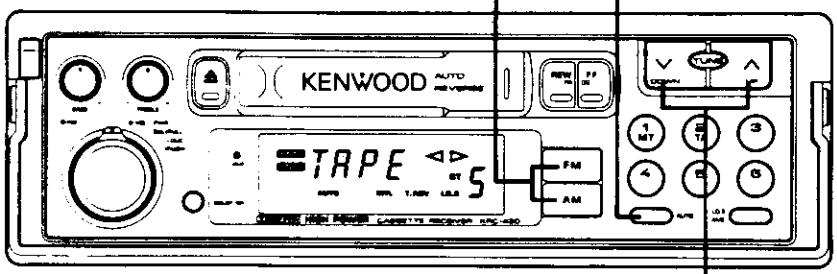
AM

2

Turn the Auto switch ON.

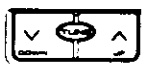


ON

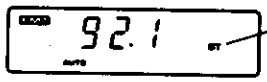


3

Press Seek switch
(Seek starts and receivers a broadcast station.)



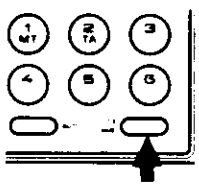
Down seek ↑ ↑ Up Seek



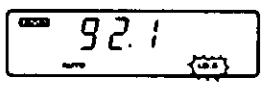
Lit when stereo broadcast is received.

Indicates reception frequency.

<Local tuning>



Tap



ON

- If the Local switch is turned ON during SEEK TUNING and AUTO MEMORY, it will stop at stations only with satisfactory reception conditions.

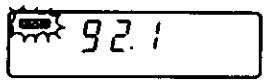
MANUAL TUNING

1

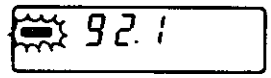
Select the desired Band.

FM ← Press FM1 or FM2

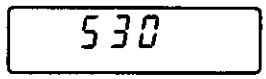
AM ← Press AM



FM1



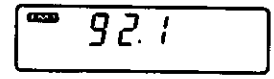
FM2



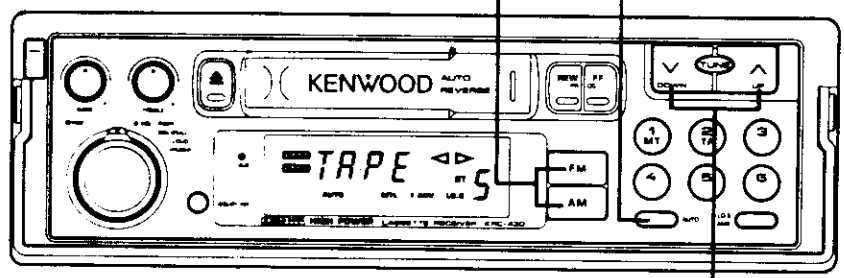
AM

2

Turn the Auto switch OFF.



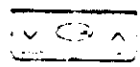
OFF



3

Press to select the desired frequency.

TUNING



For lower frequencies

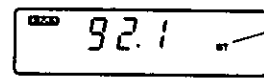
For higher frequencies

(Continued pressing will change it continuously.)

4

Indicates the frequency being received.

Lit when stereo broadcast is received.



Indicates reception frequency

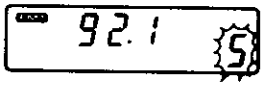
PRESET STATION TUNING

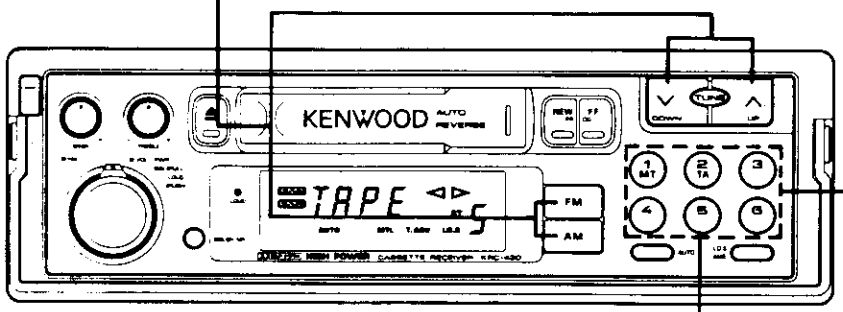
1

Selects the band and station you wish to preset.

2

Press the preset station switch you wish to be kept preset for more than 2 seconds. (When it is preset, the number of switch pressed will be indicated.)



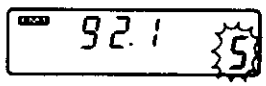


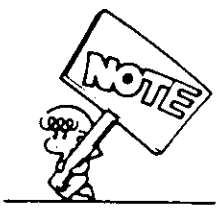
3

By repeating operation of 1 - 2 above, one station can be memorized in one switch each at FM1, FM2 and AM.

4

If tapped, the preset station can be called out. (The number of switch pressed will be indicated.)





- If preset is to be made anew on the switch already preset, what was preset before will be replaced with what is to be preset.

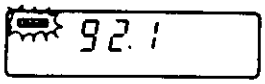
AUTO MEMORY

1

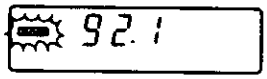
Select the desired Band.

FM ← Press FM1 or FM2

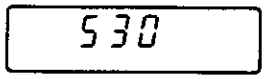
AM ← Press AM



FM1



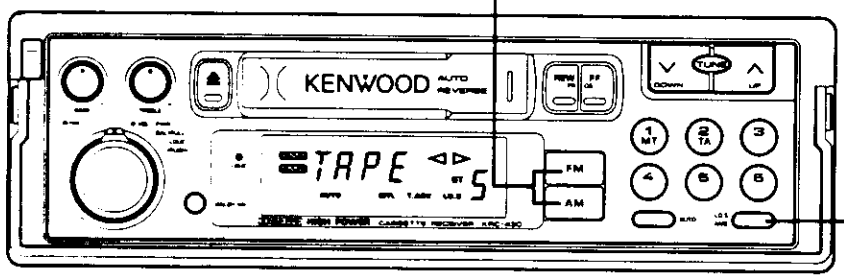
FM2



AM

2

Press the Auto memory switch for more than 2 seconds.



3

The selected band is automatically scanned and 6 stations are memorized. When 6 stations are memorized, the auto memory function is automatically released.

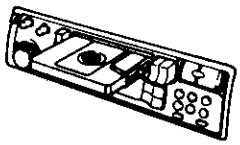
4

The station last stored in memory is received.

TAPE PLAYBACK

TAPE PLAYBACK

Insert the cassette tape.
(Playback starts.)

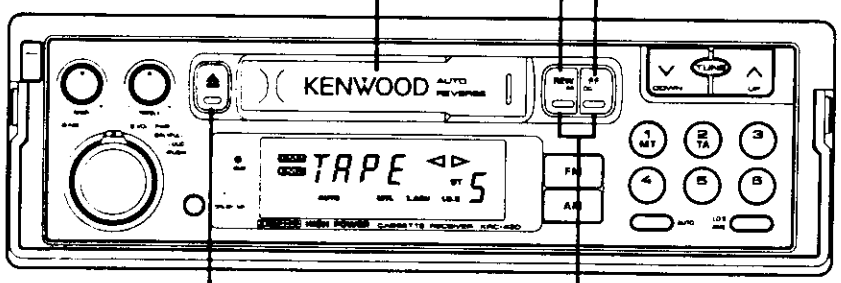


(During playback, ▷ will be indicated.)

FAST FORWARD/REWIND

Operation	Press
Fast forward	FF
Rewind	REW

To release, softly press the reverse switch.



PROGRAM

When you wish to listen to the reverse side, press these at the same time or softly the REW switch.
(The reverse side will be played back.)

STOP PLAYBACK

Press the Eject switch.
(The cassette tape will come out.)

<Playback side>

When inserted with the side A up.

Indicator	Playback side
▷	Side A
◁	Side B

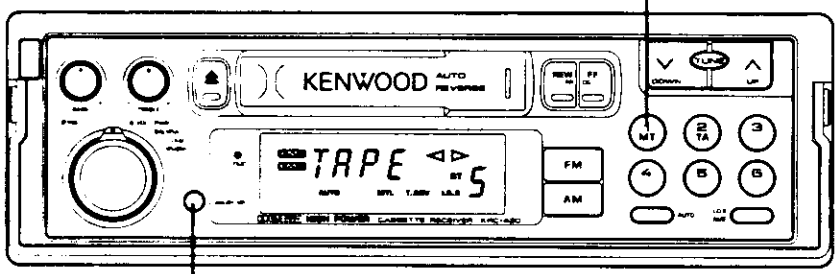
This will be reversed when inserted with the side B up.

METAL TAPE AND DOLBY NR

METAL SWITCH

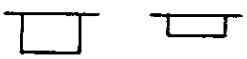
In tape play mode, press Metal switch to play back a CrO_2 or Metal tape.

ON



DOLBY B NR

In tape play mode, press Dolby B NR switch when playing back a tape recorded with Dolby B NR system.

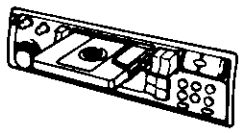


OFF ON

TAPE ADVANCE

1

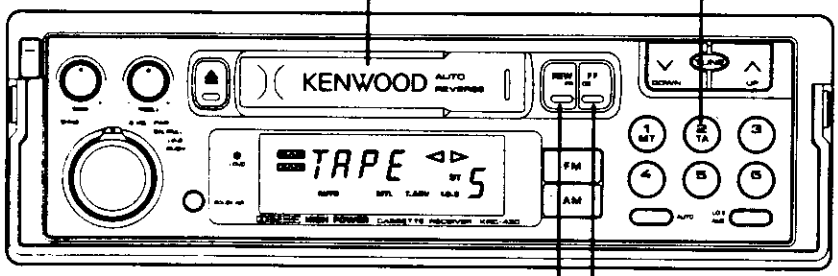
Play back the tape.



2

Press the Tape advance switch.

ON

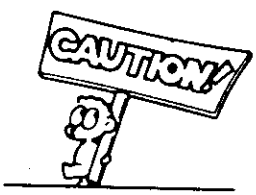


3

In case you wish to listen to the music now being played back from the beginning over again, press the REW switch.
(Rewind starts and it comes to play back at the beginning of the music you are now listening to.)

4

In case you wish to listen to the next music, press the FF switch.
(Fast forward starts and it comes to play back at the beginning of the next music.)



- Please note that in case of the following tapes, sometimes the tape advance does not function properly.

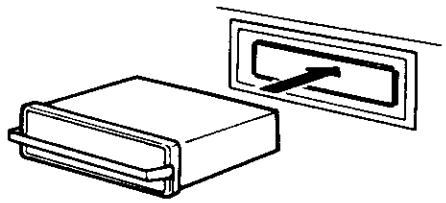
1. When an interval between the music is less than 5 seconds.
2. When a recorded portion of the low sound volume continues for more than 5 seconds.

INSERTION/REMOVAL OF UNIT

■ Insert the unit

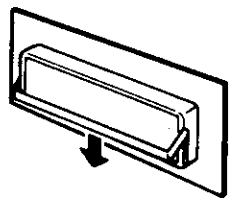
1

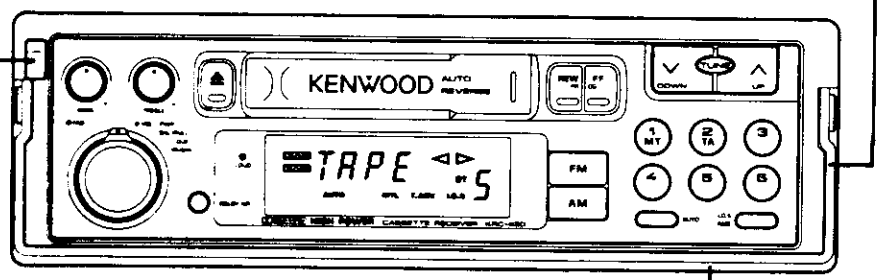
Insert the unit into the detachable case.



2

Lower the handle down to the bottom.





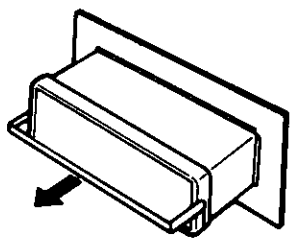
■ Remove the unit

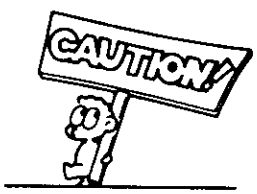
1

Press the T.P.C button.
Lift the handle
(The handle lock is released.)

2

Hold the handle and pull it out.





- Be sure to eject the cassette tape before removing the unit.

CHANNEL SPACE SELECTION

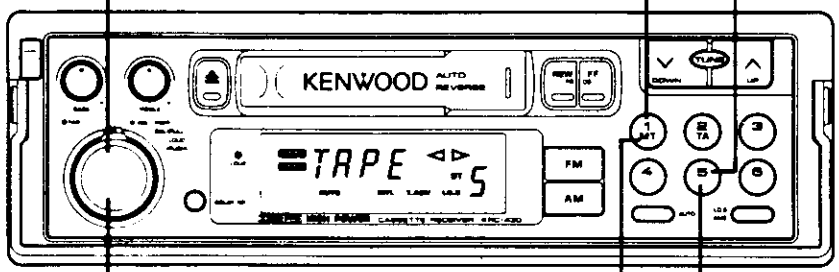
■ **The KRC-430 has a channel space select function. Two spacing frequencies are available for both FM and AM, 200 kHz or 50 kHz for FM, and 10 kHz or 9 kHz for AM.**

1

Turn the power OFF.

2

Keep on pressing the Preset station switch of "1" and "5"

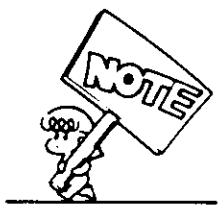


3

Turn ON the power while engaged in the operation of 2
(Channel space will turn to 50 kHz for FM and 9 kHz for AM.)

4

To bring it back the home position, carry out operations of 1-3 again.
(Channel space returns to 200 kHz for FM and 10 kHz for AM.)



- When the channel space is changed, the memorized contents are stored.
- The channel space selection is not used in United States or Canada.

CARE AND MAINTENANCE

Notes on handling tape

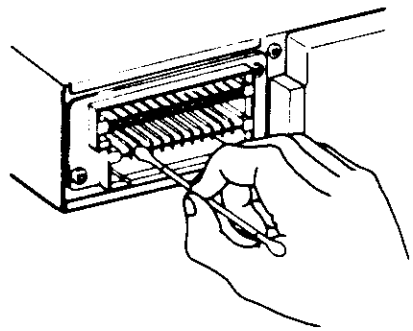
- Before loading a cassette, check the tape for slack. If there is slack tape, remove it using a pencil to turn one of the spools in the cassette shell.
- Do not expose the cassette tape to direct sunlight. Leaving a cassette at high temperature or humidity can deform the cassette shell or tape.
- 120-minute tape is very thin. Avoid its use, because it can easily be twisted around the pinch roller.

Head cleaning

Magnetic particles from the tape adhere to the head surface after a long period of use, resulting in noise and poor quality sound. Clean the head with cleaning tape available at your KENWOOD dealer. And follow the directions with the head cleaner.

CAUTION:

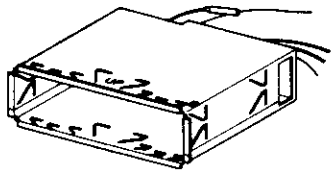
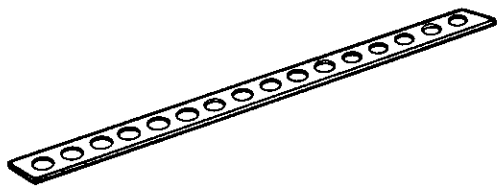
- The KRC-430 includes a lithium backup battery to retain memory in the microprocessor. If the unit can no longer retain its memory, this lithium battery may have been discharged. In this case, bring the unit in to our authorized service center. This backup lithium battery life is estimated at about 7 years.



The connection at the rear sometimes will require cleaning. Periodically wipe the connector with a cloth moistened with alcohol as shown at left.

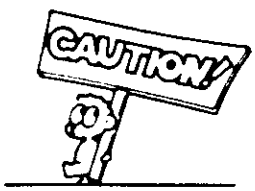
ACCESSORIES AND INSTALLATION

■ ACCESSORIES

No.	Part name	External View	Number of units
①	Detachable case		1
②	Metal mounting strap		1
③	Hex. bolt (M5 × 20)		1
④	Hex. nut (M5)		2

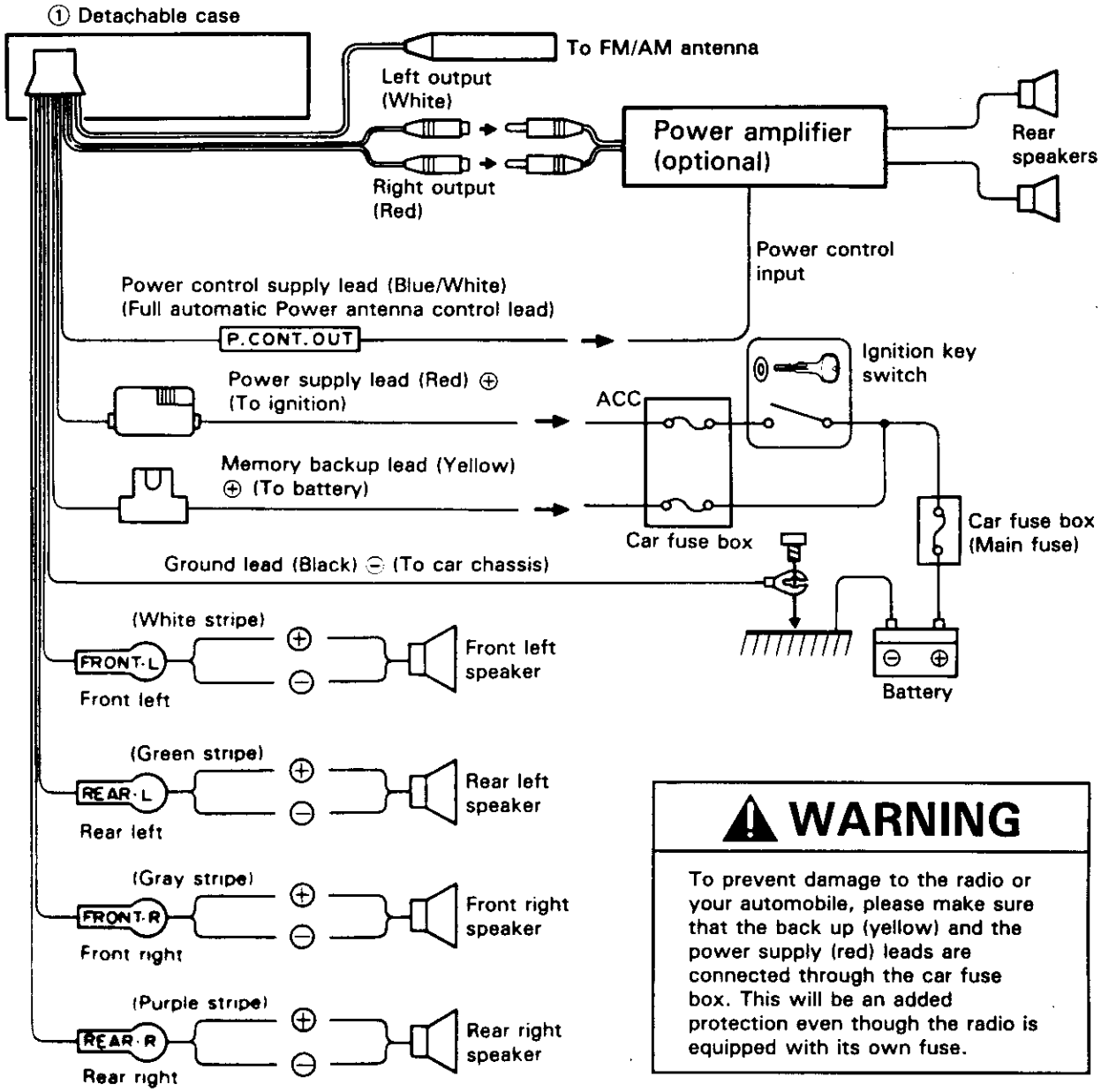
■ INSTALLATION

1 Before installation and wiring, remove the ⊖ terminal of the battery to prevent short-circuiting
2. Connect the input and output cords of the system.
3. Connect the ground to the metal chassis of the car.
4 Connect the memory backup lead (yellow).
5 Connect the power supply lead (red).
6 Install the set and after confirming the installation and wirings are correct, connect the ⊖ terminal of the battery.



- If a fuse is blown, first check that the associated wires are not short-circuited then replace the fuse with a new one having the same capacity.
- Secure unconnected wires properly so that they do not contact the vehicle chassis.
- Do not remove the caps attached to the unused terminals.
- As the unit uses BTL output, always connect the without stripe speaker wires to the ⊖ terminals of the speaker systems. Never let the ⊖ speaker wires touch and never connect them to the chassis (ground). Do not let the speaker terminals come into contact with the chassis (ground). Insulate any unused output wire to prevent a short circuit.

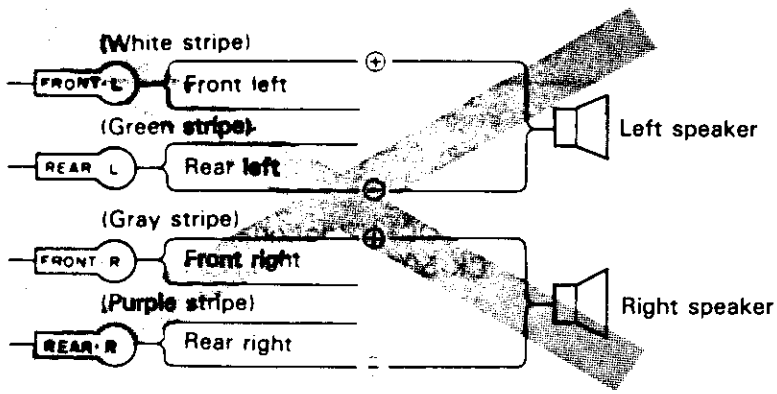
CONNECTIONS



⚠ WARNING

To prevent damage to the radio or your automobile, please make sure that the back up (yellow) and the power supply (red) leads are connected through the car fuse box. This will be an added protection even though the radio is equipped with its own fuse.

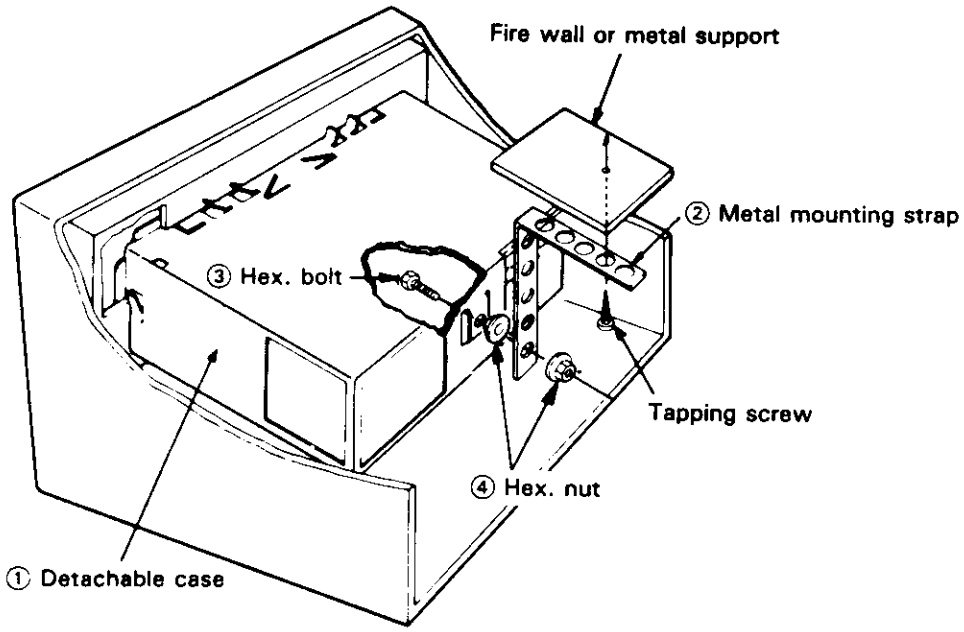
CAUTION



- Even with two speaker system, connect the speakers to each connecting cord, but avoid the connections as shown at left.

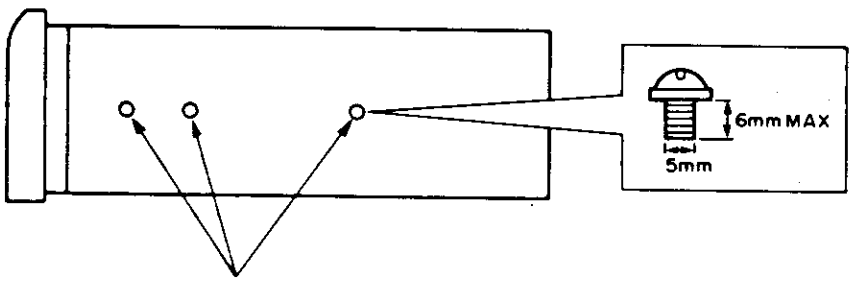
INSTALLATION

■ **Insert the ① Detachable case into the console and clamp with the claws. If the detachable case cannot be inserted, cut off the console with a file.**

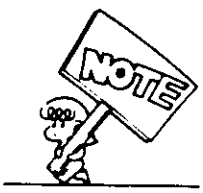


■ **Tighten up the TP screw (M5) into the following three holes when installation is made for Japanese-made cars.**

KRC-430



Installation holes for Japanese-made cars.



- If an "ELECTRONIC CHASSIS LOCK" (optional) is to be used with this unit, then, buy a "CK-50A".

TROUBLESHOOTING GUIDE

What often appears to be a malfunction is often due to user error in operation or connection. When trouble occurs with your unit, please check the following before calling for service.

Symptom	Cause	Remedy
No sound one channel	The balance/fader control is extremely rotated to one side.	Adjust the balance/fader control.
Poor reception	The antenna is not extended.	Extend the antenna.
Tonal quality is inferior.	Head is stained.	Carry out head cleaning.
Tape creaks.		

SPECIFICATIONS

Specifications subject to change without notice.

FM Tuner Section

Frequency Range (200 kHz space)	87.9 MHz ~ 107.9 MHz
(50 kHz space)	87.5 MHz ~ 108.0 MHz
Usable Sensitivity	12.0 dBf (1.1 μV/75 ohms)
50 dB Quieting Sensitivity	15.2 dBf (1.6 μV/75 ohms)
Frequency Response (±3 dB)	30 Hz ~ 15 kHz
Signal to Noise Ratio	73 dB
Selectivity	100 dB
Capture Ratio	1.5 dB
Image Response Ratio	70 dB
IF Response Ratio	120 dB
Stereo Separation (1 kHz)	40 dB

AM Tuner Section

Frequency Range (10 kHz space)	530 kHz ~ 1,700 kHz
(9 kHz space)	531 kHz ~ 1,611 kHz
Usable Sensitivity	28 dB (30 μV)

Cassette Deck Section

Tape Speed	4.76 cm/sec
Wow & Flutter	0.12% (WRMS)
Fast Winding Time (C-60)	100 sec
Frequency Response (120 μs)	30 Hz ~ 14 kHz (±3 dB)
(70 μs)	30 Hz ~ 16 kHz (±3 dB)
Stereo Separation (1 kHz)	43 dB
Signal to Noise Ratio (NR OFF)	54 dB
(Dolby-B ON)	63 dB

Audio Section

Max. Output Power	25 W × 2
Power Output	20 W × 2 into 4 ohms, 1 kHz at 10% THD 15 W × 2 into 4 ohms, 30 Hz ~ 20 kHz at 1% THD
Tone Action	Bass: 100 Hz ±10 dB Treble: 10 kHz ±10 dB
Preout level/load	1 V/10 k ohms

General

Operating Voltage (GND)	14.4 V (11 ~ 16 V allowable)
Current Consumption	6 A at Rated Power
Installation Size	182 × 52 × 159 mm (7-1/6 × 2 × 6-1/4 in.)
Weight	2.0 kg (4.4 lb)